MULTIMEDIA **UNIVERSITY**

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FINAL EXAMINATION

TRIMESTER 2, 2018/2019

DCS5018 – COMPUTER SYSTEMS & APPLICATIONS
(DIT & DBIS)

4 MARCH 2019
2:30 p.m. – 4:30 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of **4 pages**.

2. Answer **ALL** questions in **Section A** on the **OMR sheet**.

3. Answer **ALL** questions in **Section B** in the **Answer Booklet**.

Section A: 10 Multiple Choice Questions (10 marks)
Instruction: Shade your answers on the OMR sheet.

1. A self-contained computer device that have their own programming that typically do not receive input from users or interact with other systems is known as
   _____.
   A. mainframe
   B. supercomputer
   C. minicomputer
   D. embedded computer

2. Below are the examples of input device **EXCEPT** _____.
   A. joysticks
   B. touchpad
   C. stylus
   D. clip-on mic

3. Which of the following characteristics is **NOT TRUE** about laser printer?
   A. Affordable
   B. Faster printing speed
   C. Uses laser beams
   D. Higher quality printouts

4. _____ controls all functions of the computer's component and processes all commands and instructions.
   A. Read-only memory (ROM)
   B. Central Processing Unit (CPU)
   C. Random-access memory (RAM)
   D. Cache

5. _____ can achieve fast transfer speeds of up to 10 Gb/s.
   A. FireWire 800
   B. Thunderbolt port
   C. USB port
   D. Connectivity port

6. Which of the following website is business-related social networking site?
   A. Facebook
   B. Twitter
   C. LinkedIn
   D. Instagram

7. Below are some guidelines to ensure your online shopping experience is safe **EXCEPT** _____.
   A. make online transaction using public computers
   B. shop at well-known and reputable sites
   C. check the beginning of URL changes from "http" to "https"
   D. create a strong password for online accounts

Continued...

8. Which of the following top-level domain indicates that website can be used by anyone?
   A. .org
   B. .gov
   C. .edu
   D. .com

9. _____ is a program where it visits many sites simultaneously and collects data on the web.
   A. Indexer
   B. Search engine
   C. Spider
   D. Metasearch engine

10. Which of the following aspects is important when evaluating a website to be used for research?
    A. Links
    B. Audience
    C. Bias
    D. All of the above.

Section B: 4 Structured Questions (40 marks)
Instruction: Write your answers in the Answer Booklet.

Question 1

a) Alice is making presentation slides for her Final Year Project. Suggest **FOUR** tips for her to design a great presentation.

(2 marks)

b) When we install a software to a computer, we usually will be guided by wizard. Briefly explain how a wizard works.

(1 mark)

c) Generally, a user accepts an agreement which is known as software license before installing the software on the machine. List **FOUR** criteria that stated in the agreement.

(2 marks)

d) Discuss **THREE** solutions when RAM has limited capacity and not enough room to store the required instructions and data.

(3 marks)

e) Briefly describe the function of the following system maintenance utilities:

   i.   Disk Cleanup   (1 mark)
   ii. Disk Defragmenter   (1 mark)

[TOTAL 10 MARKS]

Continued...

Question 2

a) Machine cycle is a process where the CPU always goes through the same series of steps when performing a program instruction. Discuss the **FOUR** steps that involved in the machine cycle.

(4 marks)

b) List **TWO** procedures that can be taken to ensure the system reliability.

(1 mark)

c) Differentiate between satellite broadband and mobile broadband.

(2 marks)

d) Briefly explain the difference between client/server network and peer-to-peer network.

(3 marks)

[TOTAL 10 MARKS]

Question 3

a) Smartphone is one of the important devices in our lifestyle nowadays. Briefly explain how the digital processing of a cell phone technology works when you speak into a cell phone.

(3 marks)

b) Define **TWO** main ways to transfer information to a computer or phone.

(2 marks)

c) Suggest **TWO** ways on how firewalls can protect a computer from hacker.

(2 marks)

d) Differentiate between malware, adware and spyware.

(3 marks)

[TOTAL 10 MARKS]

Question 4

a) Draw the **SIX** steps in System Development Life Cycle (SDLC) model.

(3 marks)

b) A proposed system is often documented using flowcharts and data-flow diagrams. Differentiate between flowcharts and data-flow diagrams.

(2 marks)

c) List **FOUR** main operations in Database Management Systems (DBMS).

(2 marks)

Continued...

d) Briefly discuss the function of the following types of report:

       i.   Detail report
       ii.   Summary report
       iii.   Exception report

(3 marks)

[TOTAL 10 MARKS]

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